What is claimed is:

1. A method of accounting for services provided over a packet-based network, comprising:

defermining a type of service used over the network;

monitoring usage of the service; and

dollecting accounting information based on the type of service and usage

of the service.

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2. The method of claim 1, wherein the determining, monitoring, and collecting are performed in a first entity, the method further comprising transmitting, from the first entity, the collected accounting information to at least another entity.

- 3. The method of claim 2, further comprising assigning an identifier with the collected accounting information that is common between the first entity and the at least one other entity.
- 4. The method of claim 2, wherein collecting the accounting information includes compiling the accounting information into an accounting unit.
- 5. The method of claim 4, further comprising using an accounting unit having a common format for convenient exchange between entities.
- 6. The method of claim 4, further comprising using an accounting unit including a traffic matrix segment.
- 7. The method of claim 1, wherein determining the type of service includes determining one of a plurality of service types.
- 8. The method of claim 7, wherein determining one of the plurality of service types include determining one of real-time communications and at least another type of service.

	1	9. The method of claim 1, further comprising determining a quality of
	2	service for communications over the network.
	1	10. The method of claim 1, further comprising determining if mobility
	2	management is provided for service on the network used by a mobile node.
	1	11. The method of claim 1, further comprising determining usage of a radio
	2	interface by a mobile node to access the network.
	1	12. The method of claim 1, further comprising determining usage of a visited network by a mobile node.
	2	13. The method of claim 1, further comprising determining usage of a packet
	2	data protocol to communicate information over the network.
The Start Start Start	1	14. The method of claim 1, further comprising determining a metering class of
i ni	2	the service that indicates if the service is chargeable.
) 	1	15. The method of claim 1, further comprising creating a network access
Start Start I if there should	2	identifier to identify a node using the service.
	1	16. A method of accounting for services provided over a packet-based
	2	network, comprising:
<	उद्ध	communicating units of accounting information carrying information
<i>Y</i>	4H /	regarding usage of the packet-based network, the unit of accounting information having a
	5	predetermined format capable of being exchanged between a plurality of entities; and
	6	assigning values to entries in each unit of accounting information based on
	7	usage, the unit including a first entry indicating a type of service provided over the data
	8	network.

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1 2 22. The system of claim 21, wherein the entries of the accounting unit include an entry identifying a type of service used.

23. The system of claim 21, wherein the entries of the accounting unit include an entry identifying a quality of service used.



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- 24. The system of claim 21, wherein the entries of the accounting unit include entries indicating elements used by a mobile node, including mobility management, usage of a radio interface, and usage of a visited network.
- 25. The system of claim 21, wherein the accounting unit includes a traffic matrix segment.
- 26. The system of claim 21, wherein the accounting unit is according to a predetermined format, the system further including a unit to communicate the accounting unit to another entity.
- 27. A system for performing accounting for usage of services on a packet-based network, comprising:

an accounting processor adapted to receive accounting units from at least one other entity; and

a storage device to collect the accounting units, the accounting units having a predetermined format and including information indicating at least a type of service used over the network.

- 28. The system of claim 27, wherein the accounting processor is adapted to generate billing to a subscriber based on one or more of the accounting units.
- 29. An article including one or more machine-readable storage media containing instructions for accounting for services used on a packet-based data network, the instructions when executed causing a system to:

determine usage elements associated with each service, the usage elements including a service type and amount of data communicated; and

collecting accounting units each including entries identifying the usage

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elements.

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usage of a radio interface by the node, and a field indicating usage of a visited network by



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the node.